

COMPUTER INFORMATION SYSTEMS - INFORMATION ASSURANCE (BACHELOR OF SCIENCE)

The Computer Information Systems major emphasizes the development and maintenance of business software systems. It consists of prescriptive courses and elective courses.

Course	Title	Credits
Prescriptive Courses ¹		
CS 230	Fundamentals of Computing	3
CS 231	Computer Programming I	3
CS 232	Computer Programming II	3
CS 304	Technical Writing for Computer Science (WI)	3
CS 309	Introduction to E-Commerce	3
CS 310	Software Engineering I	3
CS 311	Management Information Systems (WI)	3
CS 333	Computer Organization and Architecture	3
CS 350	Fundamentals of Computer Operating Systems	3
CS 370	COBOL for Information Systems	3
CS 450	Computer Networking	3
CS 462	Ethics and Legal Issues (WI)	3
CS 488	Database Systems	3
CS 491	Software Engineering II	3
Information Assurance		
CS 307	Management of Information Security and Forensics	3
CS 308	Embedded and Control Systems Security	3
CS 470	Computer Security	3
Select one of the following: 3		
CS 412	Disaster Response & Recovery	
CS 425	Web Application Development Using Web Services	
CS 461	Critical Infrastructure	

Courses in the major may not be taken until all prerequisites are completed with a grade of "C" or better.

In addition to the major courses, support courses required are:

Course	Title	Credits
ACC 200	Principles of Accounting I	3
EC 221	Principles of Microeconomics	3
FIN 301	Business Finance	3
MGT 301	Principles of Management	3
MKT 301	Principles of Marketing	3
MS 120 or MS 125	Calculus and Its Applications or Calculus I	3-4
MS 302	Applied Probability and Statistics	3

Note: This plan of study reflects the computer information systems program beginning with MS 120 Calculus and Its Applications (3) or MS 125 Calculus I (4). Freshman computer science majors needing

additional preparation before beginning calculus will be placed in the appropriate algebra or precalculus courses that provide this preparation. See advisor.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations. More information about general education requirements can be found in the Summary of Degrees/Requirements (catalog.jsu.edu/undergraduate/summary-degrees-requirements/) section of the catalog.

Course	Title	Hours
Freshman		
Fall		
EH Composition sequence		3
Natural Science sequence		4
CS 201	Introduction to Information Technology	3
CS 230	Fundamentals of Computing	3
STU 101	First Year Experience	0
Hours		13
Spring		
EH Composition sequence		3
EH 141	Oral Communication	3
Natural Science sequence		4
CS 231	Computer Programming I	3
CS 309	Introduction to E-Commerce	3
Hours		16
Sophomore		
Fall		
MS 120 or MS 125	Calculus and Its Applications or Calculus I	4
History		3
CS 232	Computer Programming II	3
CS 304	Technical Writing for Computer Science (WI)	3
ACC 200	Principles of Accounting I	3
Hours		16
Spring		
Fine Arts		3
History/Social/Behavioral Science ¹		3
EC 221	Principles of Microeconomics	3
CS 310	Software Engineering I	3
CS 311	Management Information Systems (WI)	3
Hours		15
Junior		
Fall		
Literature		3
CS 370	COBOL for Information Systems	3
CS 488	Database Systems	3
Computer Science Electives ²		3
Electives		3
Hours		15
Spring		
Humanities & Fine Arts ¹		3
CS 350	Fundamentals of Computer Operating Systems	3
CS 491	Software Engineering II	3
Computer Science Electives ²		3
MGT 301	Principles of Management	3
Hours		15
Senior		
Fall		
CS 333	Computer Organization and Architecture	3
CS 450	Computer Networking	3
MS 302	Applied Probability and Statistics	3

2 Computer Information Systems - Information Assurance (Bachelor of Science)

MKT 301	Principles of Marketing	3
Electives		3
Hours		15
Spring		
PSY 201	Principles of Psychology	3
CS 462	Ethics and Legal Issues (WI)	3
Computer Science Electives ²		3
Computer Science Electives ²		3
FIN 301	Business Finance	3
Hours		15
Total Hours		120

¹ Either a history sequence or a literature sequence is required.

² Information Assurance Electives: CS 307 Management of Information Security and Forensics (3), CS 308 Embedded and Control Systems Security (3), CS 470 Computer Security (3), or select one of the following: CS 412 Disaster Response & Recovery (3), CS 425 Web Application Development Using Web Services (3), or CS 461 Critical Infrastructure (3)